

Weekly Report

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This week I solve the problem of the low efficiency of “NOT IN ” query, used “not exists” to replace it. It significantly improve the efficiency. Also, I have implemented the cursor on oracle on a small datatable, but it should performance well on the big database.

Prof.Gu said we should not use the times of kaifang, but the time period of kaifang, and we need to re-aggregation. Here, the time period of one's kaifang record in one month may be too sparse, so we may change the time interval to one quarter(季度). To achieve this goal, I have to use cursor to compute the time of each record of someone, and aggregate it by quarter, and repeat this step for every quarter. One problems remain to be solved is I have to figure out the type of the difference of two datetime type record. I believe I can export the data next week, and would have a preliminary result, if no unforeseen circumstance.

In gongan, I had made a initial revision for chapter 2,3.

I have learned about the HMM(Hidden Markovian Model), and the forward-backward algorithm, Viberti algorithm). This model is widely used in many fields, however it is simple, and it may play a role in gongan, or in part of the work.